ABSTRACT

There is provided an ionic liquid type functional material which is useful for a lubricant, acid-removing agent, various ionic liquid materials, electrolyte for solar cell and actuator material. The ionic liquid type functional material contains an aromatic compound which has a fluorine-containing ether chain and is represented by the formula (1):

[Ra -
$$D \rightarrow Ry$$
 (1)

wherein -D- is a fluoroether unit represented by the formula (1-1):

$$(O - R)_n$$
 or $(R - O)_n$ (1-1)

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in which R is at least one selected from divalent fluorine-containing alkylene groups having 1 to 5 carbon atoms in which at least one of hydrogen atoms is replaced by fluorine atom; n is an integer of from 1 to 20; when m is not less than 2, two or more of D may be the same or different; Ra is a monovalent organic group which has 1 to 20 carbon atoms and does not contain D; when m is not less than 2, two or more of Ra may be the same or different; m is an integer of from 1 to 4; Ry is a mono-, di-, tri- or tetra-valent organic group having 2 to 30 carbon atoms which has at least one selected from a basic functional group Y¹ and/or a salt Y² of the basic functional group and contains an aromatic ring structure, provided that a unit of -O-O- is not contained in the formulae (1) and (1-1).